

Amendments to and Listing of the Claims:

Please amend claim 11 and 16 so that the claims read as follows:

1-10. (Cancelled)

11. (Currently amended) A thermal bubble inkjet head having off-shooter heaters and a rapid ink refill mechanism comprising:

a silicon substrate having a top surface and a bottom surface;

an ~~insulating~~ insulating material layer of at least 1000Å thick on said top surface;

a funnel-shaped manifold formed in said silicon substrate with a narrower end of said manifold oriented towards said top surface;

two spaced-apart heaters formed on said first insulating material layer on said top surface, a first of said two spaced-apart heaters being disposed on a first side of said manifold and a second of said two spaced-apart heaters being disposed on a second side of said manifold;

two interconnects formed of a conductive metal each in electrical communication with one of said two spaced-apart heaters;

another insulating material layer on top of said two spaced-apart heaters and said insulating material layer;

a photoresist layer of at least 2000 Å thick on top of said another insulating material layer;

a primary and an auxiliary ink chamber formed in said first photoresist layer in fluid communication with each other and with said funnel-shaped manifold, the primary ink chamber being disposed substantially co-extensively with the first side of said manifold, and the auxiliary ink chamber being disposed substantially co-extensively with the second side of said manifold;

a metal seed layer on said first photoresist layer and ~~an~~ a single inkjet orifice formed in said metal seed layer, said inkjet orifice being ~~in fluid communication with~~ positioned on the first

side of said manifold such that ink flows in order from said manifold, to said auxiliary chamber, to said primary chamber, and to said inkjet orifice; and

one of a Ni and a Ni alloy layer on top of said metal seed layer with an aperture formed therein in fluid communication with said inkjet orifice.

12. (Previously Presented) A thermal bubble inkjet head having heaters and a rapid ink refill mechanism according to claim 11, wherein said photoresist layer preferably has a thickness of at least 5000Å.

13. (Previously Presented) A thermal bubble inkjet head having heaters and a rapid ink refill mechanism according to claim 11, wherein said inkjet orifice is formed in close proximity to said two spaced-apart heaters.

14. (Previously Presented) A thermal bubble inkjet head having heaters and a rapid ink refill mechanism according to claim 11, wherein said insulating material layer and said another insulating material layer are SiO₂ layer or a Si₃N₄ layer.

15. (Previously Presented) A thermal bubble inkjet head having heaters and a rapid ink refill mechanism according to claim 11, wherein said two spaced-apart heaters are formed of TaAl.

16. (Currently Amended) A thermal bubble inkjet head having heaters and a rapid ink refill mechanism according to claim 11, wherein said metal seed layer is deposited of Cr ~~of~~ or Ni.

17. (Previously Presented) A thermal bubble inkjet head having heaters and a rapid ink refill mechanism according to claim 11, wherein one of said two spaced-apart heaters are positioned in said auxiliary ink chamber.

18. (Previously Presented) A thermal bubble inkjet head having heaters and a rapid ink refill mechanism according to claim 11, wherein a ring-shaped heater is positioned in said primary ink chamber.

19. (Previously Presented) A thermal bubble inkjet head having heaters and a rapid ink refill mechanism according to claim 18, wherein said inkjet orifice is formed in said primary ink chamber opposite to said ring-shaped heater.

20. (Previously Presented) A thermal bubble inkjet head having heaters and a rapid ink refill mechanism according to claim 11, wherein said inkjet head is a monolithic head.